

PTO/SB/21 (08-03)

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TRANSMITTAL FORM (to be used for all correspondence after initial filing)		Application Number	10/729,726
		Filing Date	December 5, 2003
		First Named Inventor	Sung-Mo KANG
		Art Unit	2838
		Examiner Name	Not Yet Assigned
Total Number of Pages in This Submission	6	Attorney Docket Number	416272004201

ENCLOSURES (Check all that apply)		
<input type="checkbox"/> Fee Transmittal Form <input type="checkbox"/> Fee Attached <input type="checkbox"/> Amendment/Reply <input type="checkbox"/> After Final <input type="checkbox"/> Affidavits/declaration(s) <input type="checkbox"/> Extension of Time Request <input type="checkbox"/> Express Abandonment Request <input checked="" type="checkbox"/> Information Disclosure Statement (3 pgs.) <input type="checkbox"/> Certified Copy of Priority Document(s) <input type="checkbox"/> Response to Missing Parts/Incomplete Application <input type="checkbox"/> Response to Missing Parts under 37 CFR 1.52 or 1.53	<input type="checkbox"/> Drawing(s) <input type="checkbox"/> Licensing-related Papers <input type="checkbox"/> Petition <input type="checkbox"/> Petition to Convert to a Provisional Application <input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address <input type="checkbox"/> Terminal Disclaimer <input type="checkbox"/> Request for Refund <input type="checkbox"/> CD, Number of CD(s) _____	<input type="checkbox"/> After Allowance Communication to Group <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences <input type="checkbox"/> Appeal Communication to Group (Appeal Notice, Brief, Reply Brief) <input type="checkbox"/> Proprietary Information <input type="checkbox"/> Status Letter <input checked="" type="checkbox"/> Other Enclosure(s) (please identify below): PTO Form 1449 (2 pgs.) Return Postcard
<div>Remarks</div>		

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT	
Firm or Individual name	MORRISON & FOERSTER LLP Stephen C. Durant - 31,506 Customer No. 20872
Signature	
Date	April 5, 2004

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Loretta Garcia

Loretta Garcia

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In the application of:

Sung-Mo KANG and Seung-Moon YOO

Serial No.: 10/729,726

Filing Date: December 5, 2003

For: LOW-POWER HIGH-PERFORMANCE
INTEGRATED CIRCUIT AND
RELATED METHODS

Examiner: Not Yet Assigned

Group Art Unit: 2838

**INFORMATION DISCLOSURE
STATEMENT UNDER 37 C.F.R. § 1.97 & 1.98**

Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

Dear Sir:

Pursuant to 37 C.F.R. § 1.97 and § 1.98, Applicants submit for consideration in the above-identified application the documents listed on the attached Form PTO-1449. Copies of the documents were previously submitted in an Information Disclosure Statement and/or Office Action, directed to the related application Serial Number 10/155,490, filed May 22, 2002, and, accordingly, copies are not included herewith. This protocol conforms with 37 C.F.R. § 1.98(d)

and M.P.E.P. 609(A)(2). The Examiner is requested to make these documents of record in the application.

This Information Disclosure Statement is submitted:

- ☐ With the application; accordingly, no fee or separate requirements are required.
- ☐ Before the mailing of a first Office Action after the filing of a Request for Continued Examination under § 1.114. However, if applicable, a certification under 37 C.F.R. § 1.97(e)(1) has been provided.
- ☒ Within three months of the application filing date or before mailing of a first Office Action on the merits; accordingly, no fee or separate requirements are required. However, if applicable, a certification under 37 C.F.R. § 1.97(e)(1) has been provided.
- ☐ After receipt of a first Office Action on the merits but before mailing of a final Office Action or Notice of Allowance.
 - ☐ A fee is required. A check in the amount of ___ is enclosed.
 - ☐ A fee is required. Accordingly, a Fee Transmittal form (PTO/SB/17) is attached to this submission in duplicate.
 - ☐ A Certification under 37 C.F.R. § 1.97(e) is provided above; accordingly; no fee is believed to be due.
- ☐ After mailing of a final Office Action or Notice of Allowance, but before payment of the issue fee.
 - ☐ A Certification under 37 C.F.R. § 1.97(e) is provided above and a check in the amount of ___ is enclosed.
 - ☐ A Certification under 37 C.F.R. § 1.97(e) is provided above and a Fee Transmittal form (PTO/SB/17 is attached to this submission in duplicate.)

Applicants would appreciate the Examiner initialing and returning the Form PTO-1449, indicating that the information has been considered and made of record herein.

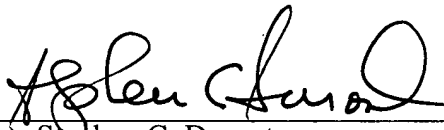
The information contained in this Information Disclosure Statement under 37 C.F.R. § 1.97 and § 1.98 is not to be construed as a representation that: (i) a complete search

has been made; (ii) additional information material to the examination of this application does not exist; (iii) the information, protocols, results and the like reported by third parties are accurate or enabling; or (iv) the above information constitutes prior art to the subject invention.

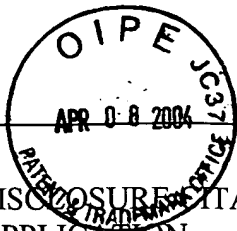
In the unlikely event that the transmittal form is separated from this document and the Patent Office determines that an extension and/or other relief (such as payment of a fee under 37 C.F.R. §1.17(p)) is required, Applicants petition for any required relief including extensions of time and authorize the Commissioner to charge the cost of such petitions and/or other fees due in connection with the filing of this document to **Deposit Account No. 03-1952** referencing **416272004201**. However, the Commissioner is not authorized to charge the cost of the issue fee to the Deposit Account.

Dated: April 5, 2004

Respectfully submitted,

By: 
Stephen C. Durant
Registration No. 31,506

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Form PTO-1449 INFORMATION DISCLOSURE CITATION IN AN APPLICATION <i>(Use several sheets if necessary)</i>	Docket Number 416272004201	Application Number 10/729,726
	Applicant Sung-Mo KANG and Seung-Moon YOO	
	Filing Date December 5, 2003	Group Art Unit 2838
	Mailing Date April 5, 2004	

U.S. PATENT DOCUMENTS

Examiner Initials	Ref. No.	Date	Document No.	Name	Class	Subclass	Filing Date If Appropriate
	1.	5/19/1992	5,115,150	Ludwig, Mark A.			
	2.	9/29/1992	5,151,620	Lin, Ming-Zen			
	3.	12/29/1992	5,175,448	Fujii			
	4.	8/26/1997	5,661,419	Bhagwan			
	5.	3/9/1999	5,880,604	Kawahara et al.			
	6.	4/11/2000	6,049,245	Son et al.			
	7.	8/22/2000	6,107,869	Horiguchi et al.			
	8.	2/20/2001	6,191,615	Koga, Hiroshi			
	9.	3/20/2001	6,204,696	Krishnamurthy et al.			
	10.	4/9/2002	6,370,052 B1	Hsu et al.			
	11.	6/11/2002	6,404,269	Voldman			
	12.	6/25/2002	6,411,157	Hsu et al.			
	13.	8/27/2002	6,442,086 B1	Dean			
	14.	12/2002	6,492,837 B1	Narendra et al.			
	15.	5/21/2002	10/153,158	Yoo et al.			

FOREIGN PATENT DOCUMENTS

Examiner Initials	Ref. No.	Date	Document No.	Country	Class	Subclass	Translation YES NO

OTHER DOCUMENTS

(including author, title, Date, Pertinent Pages, Etc.)

Examiner Initials	Ref. No.	Title
X	16.	M. Anis et al., " Dynamic and Leakage Power Reduction in MTCMOS Circuits Using an Automated Efficient Gate Clustering Technique", IEEE, June 10-14, 2002, New Orleans, Louisiana, pp. 480-485.
x	17.	Assaderaghi et al., "A Dynamic Threshold Voltage MOSFET (DTMOS) for Ultra-Low

EXAMINER:

DATE CONSIDERED:

EXAMINER: Initial if citation considered, whether or not the citation conforms with MPEP 609. Draw a line through the citation if not in conformance and not considered. Include a copy of this form with next communication to applicant.

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Form PTO-1449 INFORMATION DISCLOSURE CITATION IN AN APPLICATION <i>(Use several sheets if necessary)</i>		Docket Number 416272004201	Application Number 10/729,726
		Applicant Sung-Mo KANG and Seung-Moon YOO	
		Filing Date December 5, 2003	Group Art Unit 2838
		Mailing Date April 5, 2004	

x		Voltage Operation", <i>International Electron Devices Meeting, Digest of Technical Papers</i> , pages 809-812, June 1994.
✓	18.	J. Burr and J. Scott, "A 200mV Self-Testing Encoder/Decoder using Stanford Ultra-Low-Power CMOS", <i>ISSCC Digest of Technical Papers</i> , pages 84-85, February 1994.
x	19.	Mark N. Horenstein, <i>Microelectronic Circuits & Devices</i> , 1996, pgs. 240-250.
✓	20.	M. Horiguchi et al., "Switched-Source-Impedance CMOS Circuit for Low Standby Subthreshold Current Giga-Scale LSI's", <i>IEEE Journal of Solid State Circuits</i> , 28(11):1131-1135, November 1993.
✓	21.	T. Iwata et al., "Gate-Over-Driving CMOS Architecture for 0.5V Single-Power-Supply-Operated Devices", <i>ISSCC Digest of Technical Papers</i> , pages 290-291, February 1997.
✓	22.	Kawaguchi et al., "A CMOS Scheme for 0.5V Supply Voltage with Pico-Ampere Standby Current", <i>ISSCC Digest of Technical Papers</i> , pages 192-193, February 1998.
✓	23.	T. Kuroda et al., "A 0.9V 150MHz 10mW 4mm ² 2D Discrete Cosine Transform Core Processor with Variable-Threshold-Voltage Scheme", <i>ISSCC Digest of Technical Papers</i> , pages 166-167, February 1996.
✓	24.	Mutoh et al., "1-V Power Supply High-Speed Digital Circuit Technology with Multithreshold-Voltage CMOS", <i>IEEE Journal of Solid State Circuits</i> , 30(8): 845-854, August 1995.
✓	25.	K. Seta et al., "50% Active-Power Saving without Speed Degradation Using Standby Power Reduction (SPR) Circuit", in <i>ISSCC Digest of Technical Papers</i> , pages 318-319, February 1995.
x	26.	S. Shigematsu et al., "A 1-V High-Speed MTCMOS Circuit Scheme for Power-Down Application Circuits", <i>IEEE Journal of Solid State Circuits</i> , 32(6):861-869, June 1997.
x	27.	Seung-Moon Yoo et al., "New High Performance Sub-1V Circuit Technique with Reduced Standby Current and Robust Data Holding", <i>IEEE International Symposium on Circuits and Systems</i> , May 28-31, 2000, Geneva, Switzerland (Pages 1-4)
✓	28.	Notice of Allowance and Fee due, Notice of Allowability and Examiner's Amendment for Application Ser. no. 10/153,158, 6 pgs.
✓	29.	Amendment A for the U. S. patent application 10/153,158, Yoo et al., filed 5/21/2002, 13 pgs. 4/9/2003.
x	30.	International Search Report mailed on February 25, 2004, for PCT/US03/24976 filed on August 8, 2003, 7 pgs.

x Did not receive

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